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2626 DATE MAILED: 12/16/2009

NOTICE OF ALLOWANCE AND FEE(S) DUE

909 7590 12/16/2009
PILLSBURY WINTHROP SHAW PITTMAN, LLP
P.O. BOX 10500

MCLEAN, VA 22102

EXAMINER

WOZNIAK, JAMES S

ART UNIT PAPER NUMBER

 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONTRINATION NO.

 10/618.633
 07/15/2003
 Robert A. Kennewick
 09/06/11-03/12470
 5/69

TITLE OF INVENTION: MOBILE SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(8) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	03/16/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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appropriate. All further indicated unless corrects maintenance fee notifica	correspondence includir ed below or directed oth tions	ng the Patent, advance on nerwise in Block 1, by (rders and notification of a) specifying a new co	of ma	intenance fees wondence address;	ill be and/or	mailed to the current (b) indicating a sepa	com	espondence address as "FEE ADDRESS" for
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10/618,633	07/15/2003		Robert A. Kennewic	:k		090611-0312470 5659		5659	
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APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE I	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE		DATE DUE
nonprovisional	YES	\$755	\$300	_	\$0		\$1055		03/16/2010
EXAM	IINER	ART UNIT	CLASS-SUBCLASS	\Box					
WOZNIAK 1. Change of corresponde		2626	704-270100						
CFR 1.363). Change of corresp Address form PTO/SI "Fee Address" ind PTO/SB/47; Rev 03-C Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha B/122) attached. ication (or "Fee Address 22 or more recent) attach ND RESIDENCE DATA	nge of Correspondence Indication form and Use of a Customer	•	p to 3 native ingle l or age attorn I be pr	registered patently, firm (having as a ent) and the name ents or agents. If a rinted.	memb es of u no nam	er a 2 p to e is 3	ocun	nent has been filed for
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NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other the Office.	an the	applicant; a regi	stered a	ittorney or agent; or th	ne as:	agnee or other party in
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/618,633	07/15/2003	Robert A. Kennewick	090611-0312470 5659			
909	590 12/16/2009		EXAMINER			
PILLSBURY WINTHROP SHAW PITTMAN, LLP			WOZNIAK, JAMES S			
P.O. BOX 10500		ART UNIT	PAPER NUMBER			
MCLEAN, VA 2	AN, VA 22102					

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 611 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 611 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/618.633 KENNEWICK ET AL. Notice of Allowability Examiner Art Unit JAMES S WOZNIAK 2626 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to the Amendment After Final filed on 12/2/2009. The allowed claim(s) is/are 1-2, 4, 6-8, 10-39, 41-43, and 57-72 (now claims 1-55). 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) \square All b) ☐ Some* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. ☐ Examiner's Amendment/Comment Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material 9. ☐ Other . /James S. Wozniak/

Primary Examiner, Art Unit 2626

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DETAILED ACTION

Response to Amendment

- 1. In response to the office action from 9/15/2009, the applicant has submitted an Amendment After Final, filed 12/2/2009, amending the claims 1-2, 4, 15, 18-19, 21, 24, 28-29, 38-39, 42, 57, 59-60, and 62 to eliminate objected to claim language and filing a terminal disclaimer to obviate the previous obviousness-type double patenting rejection (Amendment, Page 15). As all previously outstanding objections and rejections have now been withdrawn, claims 1-2, 4, 6-8, 10-39, 41-43, and 57-72 are allowable over the prior art of record for the reasons set forth below.
- 2. As claims 1-2, 4, 15, 18-19, 21, 24, 28-29, 38-39, 42, 57, 59-60, and 62 have been amended to replace the unclear "configured to" claim language with language that clearly recites that the claimed functions are associated with their respective elements (Amendment, Pages 15-16), the examiner has withdrawn the previous claim objections directed toward minor informalities.
- In response to the terminal disclaimer filed on 12/2/2009 (Amendment, Page 16), the examiner has withdrawn the previous obviousness-type double patenting rejection.

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Allowable Subject Matter

Claims 1-2, 4, 6-8, 10-39, 41-43, and 57-72 are allowable over the prior art of record.

5. The following is an examiner's statement of reasons for allowance:

With respect to Claims 1 and 28, the prior art of record fails to explicitly teach or fairly suggest, either taken individually or in combination, a respective vehicle-based system and method as is set forth in these claims that features means/steps of receiving a natural language speech input from a user, processing a natural language speech input using a speech recognition engine, and a specific parser, and a specific agent architecture in combination with the speech recognition engine including a plurality of dictionary and phrase entries that are dynamically updated based on at least combined histories from a present dialog and other prior dialogs and the agent architecture featuring a agent library that includes one or more utilities that can be used by the system agent and the plurality of domain agents.

Most pertinent prior art:

Although Bennett et al (U.S. Patent: 6,615,172) evidences that a means for receiving and coding a speech input (Col. 10, Line 54- Col. 11, Line 17; and Col. 15, Line 53- Col. 16, Line 21), a natural language processor (Col. 24, Line 46- Col. 25, Line 67; Col. 27, Lines 17-51; and Col. 29, Line 30- Col. 30, Line 7; and agent, Col. 10, Line 54- Col. 11, Line 17) that comprises a speech recognizer for recognizing query words/phrases that relies on user context data from different domains (Col. 7, Lines 17-51; and Col. 27, Lines 17-67) and a parser (Col. 11, Line 59-Col. 12, Line 10: Col. 17, Lines 28-67; and Col. 27, Lines 17-51), and a shared architecture

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between system components (Col. 11, Lines 34-38) is well known in the art, Bennett is deficient in that his invention only relies on a single past history of a current conversation (Col. 27, Lines 17-67), whereas the presently claimed invention relies on a combined history of current conversations and prior different dialogs between the user and the system. Bennett also fails to teach the cited agent architecture. Thus, Bennett fails to explicitly teach or fairly suggest the applicants' invention as defined by claims 1 and 28.

Although Lin et al ("A Distributed Architecture for Cooperative Spoken Dialogue Agents with Coherent Dialogue State and History," 1999) overcomes some of the deficiencies of Bennett by teaching an agent architecture for use in a natural language dialog system that features a user interface agent manager that corresponds to the claimed agent manager (Section 2.2-3.1 and Fig. 3), a facilitator/switcher that enables dialog system processes through dialog/state history that corresponds to the claimed system agent (Figs. 2 and 3), a plurality of spoken dialog agents (SDAs) that correspond to the claimed plurality of domain agents (Fig. 3), and a database accessible by the agents (Fig. 3), Lin's agent database shown in Fig. 3 does not feature utilities that can be used by the system agent in a vehicle system and his speech recognizer does not rely on the applicants' combined histories for recognition updating. Thus, Lin individually and taken in combination with Bennett, fails to teach the applicants' invention defined by claims 1 and 28.

The remaining dependent claims further limit independent claims containing allowable subject, and thus, also contain allowable subject matter by virtue of their dependency.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue Art Unit: 2626

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Conclusion

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to James S. Wozniak whose telephone number is (571) 272-7632.

The examiner can normally be reached on M-Th, 7:30-5:00, F, 7:30-4, Off Alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Richemond Dorvil can be reached at (571) 272-7602. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

 $system, see \ http://pair-direct.uspto.gov. \ Should \ you \ have \ questions \ on \ access \ to \ the \ Private \ PAIR$

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/James S. Wozniak/

Primary Examiner, Art Unit 2626